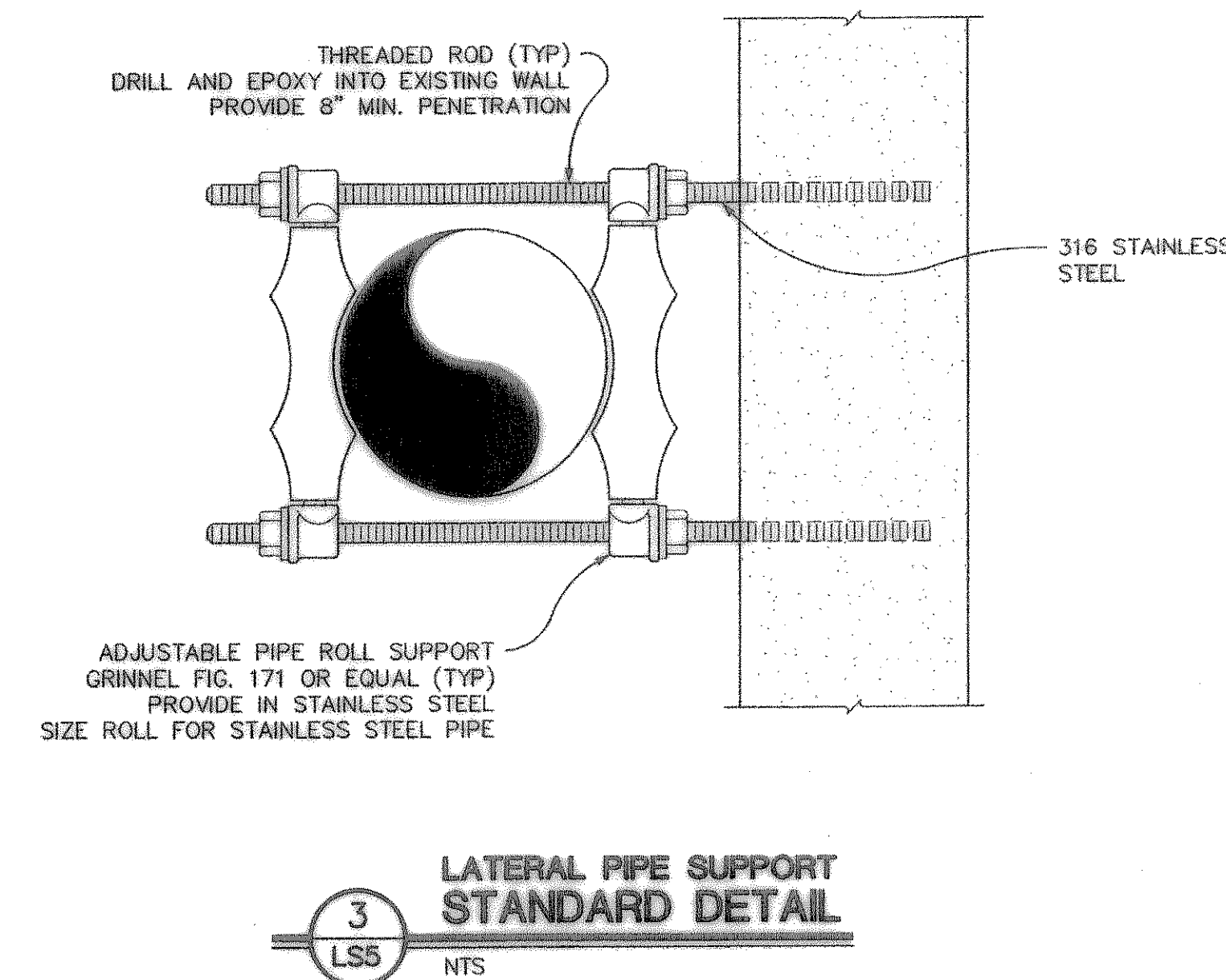
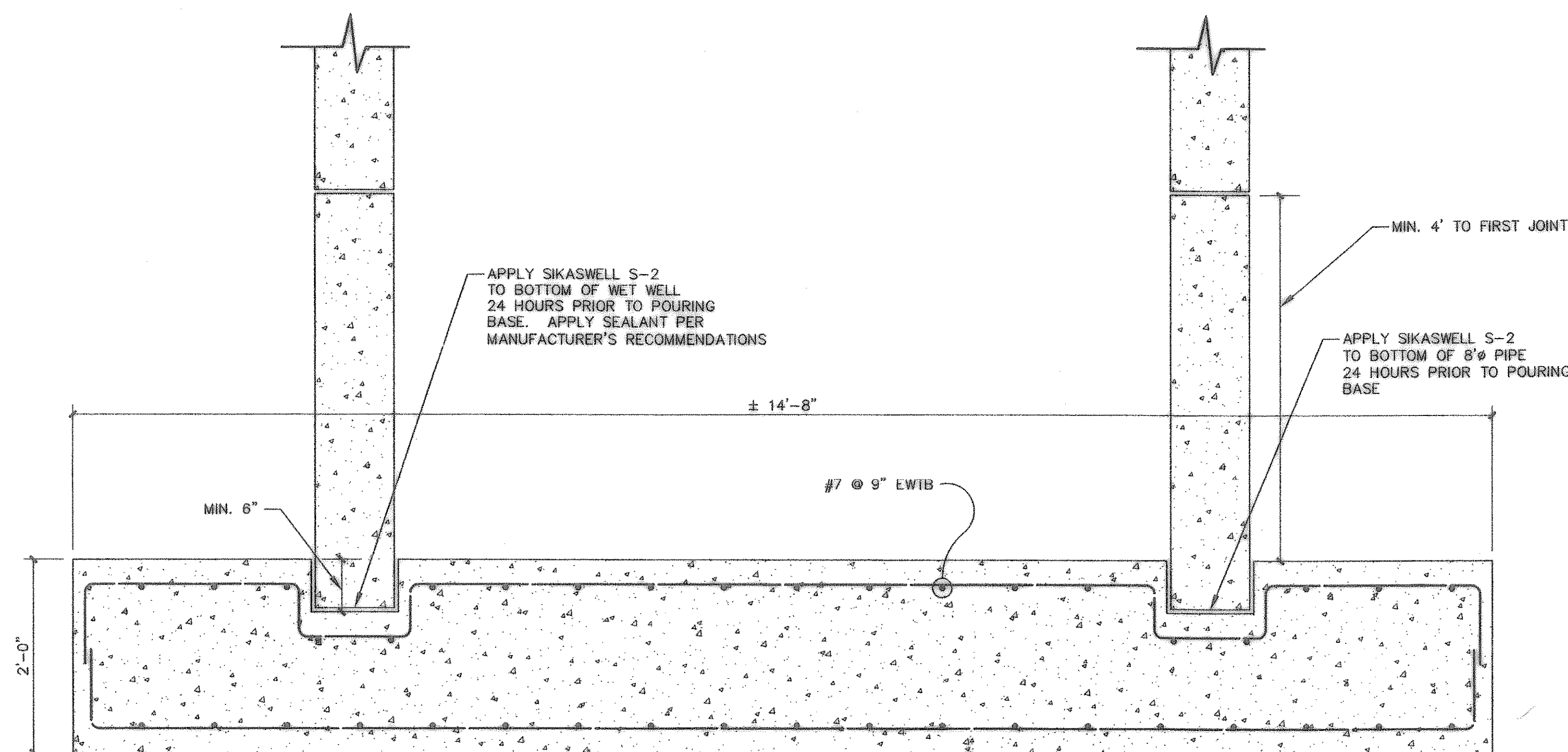
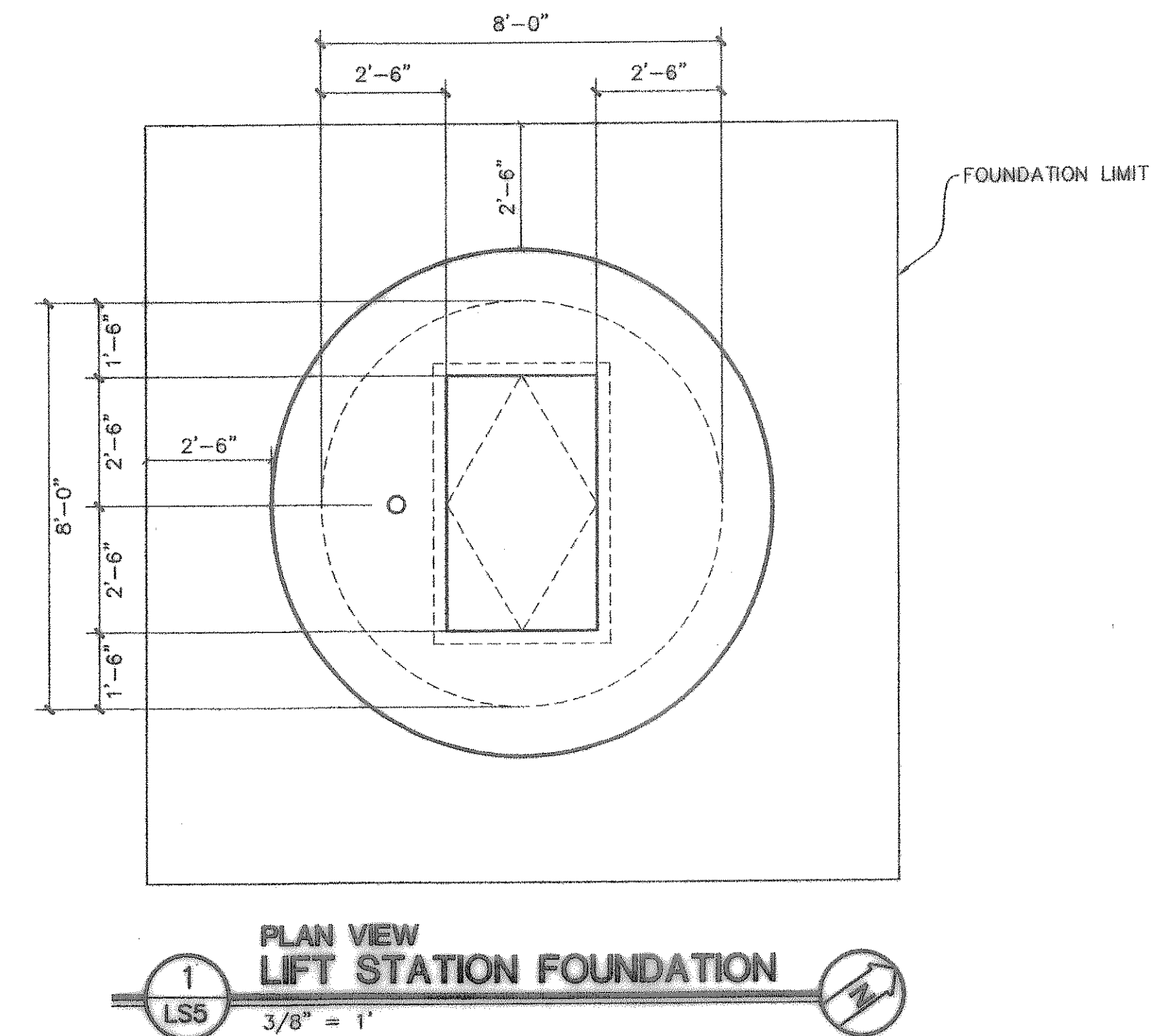


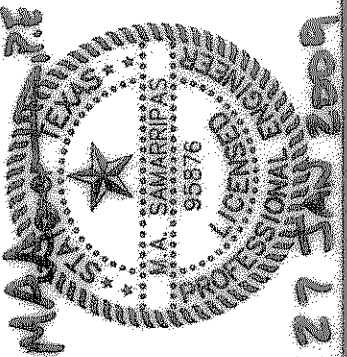
STRUCTURAL NOTES:

- STRUCTURE DESIGNED IN ACCORDANCE WITH THE 2000 EDITION OF THE INTERNATIONAL BUILDING CODE.
- STRUCTURAL DESIGN SHALL CONFORM WITH ACI 318-05 EXCEPT AS OTHERWISE INDICATED BY ACI 350R-01 AND ALL APPLICABLE LOCAL BUILDING CODES.
- ALL APPLICABLE STRUCTURES SHALL BE LEAK TESTED PRIOR TO BACKFILLING OPERATIONS. CONTRACTOR SHALL BRACE ALL WALLS WHILE PLACING BACKFILL.
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-05, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, EXCEPT AS MODIFIED BY THE SPECIFIC RECOMMENDATIONS OF ACI 350R-01 AND THE SUPPLEMENTAL REQUIREMENTS BELOW.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 psi AT 28 DAYS.
- ALL CONCRETE REINFORCING STEEL SHALL BE OF DOMESTIC MANUFACTURE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.
- DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315-99.
- AN AIR-ENTRAINING ADMIXTURE SHALL BE REQUIRED AND CONFORM TO ASTM C 260.
- A WATER-REDUCING ADMIXTURE SHALL BE REQUIRED AND CONFORM TO ASTM C494, TYPE A.
- FLY ASH SHALL NOT BE ALLOWED AS A CONCRETE SUBSTITUTE.
- ALL CONCRETE FOR STRUCTURES SHALL BE WATERTIGHT.
- COARSE AGGREGATE SIZE SHALL BE NO. 467 AND CONFORM TO ASTM C33.
- CONCRETE SHALL HAVE CRUSHED LIMESTONE AGGREGATE. GRAVEL OR OTHER TYPE OF AGGREGATE SHALL NOT BE ALLOWED.
- PORTLAND CEMENT SHALL BE TYPE I AND CONFORM TO ASTM C150.
- PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES OF CONCRETE.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 2" UNLESS NOTED OTHERWISE. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH SHALL HAVE A MINIMUM CONCRETE COVER OF 3".
- CONTRACTOR SHALL COORDINATE ALL PENETRATIONS, CONDUIT, CHAMFERS, AND EMBEDDED ITEMS PRIOR TO CONCRETE PLACEMENT AND/OR STEEL ERECTION. CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS.
- DO NOT IMPOSE SERVICE LOADS (i.e. ROOF DEAD AND LIVE LOADS, FLOOR DEAD AND LIVE LOADS, BACKFILL, ETC.) UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED MINIMUM COMPRESSIVE STRENGTH.
- SUBMIT ORIGINAL SHOP DRAWINGS FOR FABRICATION, BENDING, AND PLACEMENT OF CONCRETE REINFORCEMENT. PROVIDE BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, AND ARRANGEMENT OF CONCRETE REINFORCEMENT. PROVIDE ADDITIONAL REINFORCEMENT FOR OPENINGS IN CONCRETE WALLS AND SLABS.
- ENTIRE LIFT STATION TRENCH SHALL BE BACKFILLED WITH AN IMPERMEABLE MATERIAL, CONSISTING OF CLAYEY SAND WITH A LIQUID LIMIT NOT TO EXCEED 35 AND A PLASTICITY INDEX BETWEEN 4 AND 15. BACKFILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8 INCHES, MOISTENED TO BETWEEN 2 PERCENTAGE POINTS BELOW AND 3 PERCENTAGE POINTS ABOVE OPTIMUM, AND COMPACTED BETWEEN 95 AND 100 PERCENT OF STANDARD PROCTOR (ASTM D-698). BACKFILL SHALL BE FREE OF ORGANICS OR DELETERIOUS MATERIALS AND SHALL HAVE NO ROCK FRAGMENTS GREATER THAN 4 INCH IN DIMENSION. EACH LIFT SHALL BE TESTED FOR DENSITY PRIOR TO PLACEMENT OF NEXT LIFT.
- THE BASE SLAB AND BOTTOM SECTION OF WET WELL SHALL BE INTEGRALLY CAST. CONNECTION SHALL BE WATER TIGHT.



RECORD DRAWING
THIS RECORD DRAWING HEREIN REFLECTS TO THE BEST OF THE DESIGN ENGINEER'S KNOWLEDGE THE APPROXIMATE LOCATION OF THE CONSTRUCTED WORK, USING THE INFORMATION AS PROVIDED BY THE CONTRACTORS

Kimley-Horn
and Associates, Inc.
12700 Park Central Drive, Suite 1600 Dallas, TX 75251 972-770-1300



**North Lakeshore
Valley Lift Station
Rockwall, TX**

**STRUCTURAL DETAILS
LIFT STATION**

DATE: JANUARY 2009
DESIGN: TJS
DRAWN: TJS
CHECKED: MAS
RHA NO.: 068237002

SHEET
LS5